

Appl. No. 10/064,215
Amdt. dated November 15, 2005
Reply to Office action of August 23, 2005

REMARKS/ARGUMENTS

1. Objection to the abstract of the disclosure:

The abstract of the disclosure is objected to because of the following: Delete the title of the invention from the abstract.

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Response:

The abstract of the invention has been amended to overcome this rejection. The title of the invention and has been removed, and other changes have been made to put the abstract in correct form. Acceptance of the corrected abstract is respectfully requested.

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2. Objection to the title of the invention:

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. Change title to "Clock Recovery Circuit and Related Methods". Appropriate correction is required.

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Response:

The title of the invention has been changed according to the examiner's suggestions. Acceptance of the amended title is requested.

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3. Information disclosure statement filed on 04/26/2004:

The IDS filed on 04/26/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document.

25 **Response:**

A review of the Private PAIR records for this application reveals that on 04/26/2004 a copy of the non-patent literature, an explanation of what caused the

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literature to be cited, and a concise explanation of the relevance of the literature to the instant application were filed. Both the IDS and the attached foreign non-patent literature were located in Private PAIR entries dated 04/26/2004. Therefore, the applicants believe that the IDS complies with 37 CFR 1.98(a)(2). If, after rechecking
5 the records, the examiner finds that the IDS still fails to comply with the rules, a specific explanation of how the IDS is deficient is appreciated.

4. Objection to claims 1-5:

Claims 1-5 are objected to because of the following informalities: applicant
10 claims a "data recovery circuit" while the body of the claims call for a "clock recovery circuit". Replace "data" with "clock". Appropriate correction is required.

Response:

Claims 1-4 have been corrected according to the examiner's suggestions. Claim
15 5 has been cancelled, and is no longer in need of consideration. Acceptance of the amended claims 1-4 is respectfully requested.

5. Rejection of claims 1 and 2 under 35 U.S.C. 102(a):

Claims 1 and 2 are rejected under 35 U.S.C. 102(a) as being anticipated by
20 Nonaka et al. (US 5,047,733, hereinafter referred to as "Nonaka") for reasons of record.

Response:

Claims 1 and 2 have been amended to more clearly claim the structure of the
25 clock recovery circuit. The order of the limitations has been rearranged in claim 1. In addition, claim 1 has been amended to add the limitation that the switch circuit is electrically connected in series between the first filter and the second filter. Support for the amendment is provided in Fig.4. No new matter has been added.

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5 The differences between the claimed invention and Nonaka can best be seen by comparing Fig.4 of the present invention with Fig.9 of Nonaka. The present invention contains a charge pump 40, a first filter 44, a switch 48, a second filter 50, and an oscillator 46 all connected in series. Most importantly, the first filter 44, the switch 48, and the second filter 50 are connected in series. This has the effect that when the switch 48 is open, the first filter 44 is not connected to the oscillator 46, and no connection exists between the charge pump 40 and the oscillator 46.

10 Nonaka teaches in Fig.9 that a charge pump 4, a first filter 5, a second filter 5a, and an oscillator 6 are all connected in series. In addition, a switch 81 is connected in parallel to the first filter 5 such that when the switch is closed, a short circuit connection between the charge pump 4 and the second filter 5a is provided, effectively canceling the effect of the first filter 5. Nonaka does not teach that the
15 switch circuit is electrically connected in series between the first filter and the second filter, as is recited in the currently amended claim 1. Therefore, Nonaka is not able to temporarily disconnect the charge pump and the first filter from the oscillator, as the claimed invention is capable of doing. For these reasons, claim 1 is patentably distinguished from Nonaka. Claim 2 is dependent on claim 1, and should be allowed
20 if claim 1 is allowed. Reconsideration of claims 1 and 2 is respectfully requested.

6. Rejection of claims 3-5 under 35 U.S.C. 103(a):

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nonaka for reasons of record.

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Response:

Claim 4 has been amended like claim 1 to state that a switch is connected in series between the first filter and the second filter. No new matter has been added

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through this amendment. As explained above with respect to claim 1, Nonaka does not teach that the switch circuit is connected in series between the first filter and the second filter, as is recited in the currently amended claim 4. For these reasons, claim 4 is patentably distinguished from Nonaka.

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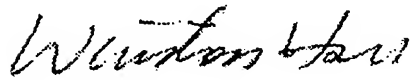
Claim 3 is dependent on claim 1, and should be allowed if claim 1 is allowed. Reconsideration of claims 3 and 4 is respectfully requested.

In view of the above statements in favor of patentability, the applicant respectfully requests that a timely Notice of Allowance be issued in this case.

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Sincerely yours,

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Date: November 15, 2005

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Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)